

Acquisition of an Ultra-high Vacuum Chamber for Etching Studies and Student Training

Laura P. Ford, University of Tulsa,
DMR-0216840

This grant allowed us to build an ultra-high vacuum chamber capable of temperature-programmed desorption spectroscopy and reflection-infrared absorption spectroscopy. These techniques will be used to study the reaction pathways of a series of β -diketones on metal surfaces. These reactions are important in etching metal surfaces.



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This grant has trained a graduate student, Pravin C. Utekar, in ultra-high vacuum surface science. Pravin designed and assembled the chamber. In the process he has learned techniques required to reach ultra-high vacuum as well as temperature-programmed desorption spectroscopy and reflection-absorption infrared spectroscopy.

